


2.30/2014/3



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# FACTORS INFLUENCING SAFETY MANAGEMENT SYSTEMS IN PETROCHEMICAL PROCESSING PLANTS

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## ABSTRACT

*The accident rate in the Malaysian construction industry is among the highest compared to other developing countries. The Malaysian government has recommended the self-regulation of safety management systems (SMS) for construction projects with the hope of improving the situation; however, the readiness of the local contractors to implement SMS is questionable. Based on the critical review of literature, this research intends to uncover the factors influencing SMS implementation and development among Malaysian contractors working in processing plants. Additionally, this paper highlights studies on the systemic issues of the contractors, during the development and implementation of SMS in construction industry during project execution in the processing plants. From the review of literature, this paper has uncovered interrelated obstacles encountered by contractors, namely cultural factors, working conditions and the organizational processes. The next step of the research aims to identify the most influencing factors on SMS development and implementation among Malaysian contractors as identified in this paper.*

**KEYWORDS:** *Safety management systems, contractors, processing plants, construction supply chain*

## I. INTRODUCTION

The growth of petrochemical processing plants (hereafter referred to as processing plants) has benefited various industries, especially the construction industry. The construction industry plays a major role in processing plants; as many construction activities are carry out to meet the high demands of development. One important role of the construction industry is to provide civil and mechanical maintenance tasks.